

APPENDIX C

Brochure entitled "RB3000 Base  
Radio Transceiver" (Two Sides)  
Copyright 1990 by Norand Corporation

RB3000-642660

## The NORAND® RB3000 Base Radio Transceiver is the Right Solution for Industrial/Warehouse Applications

As the use of radio data terminals increases, ways to improve throughput while providing a reliable radio link to the host are being sought. The RB3000 Base Radio Transceiver from Norand achieves these goals.

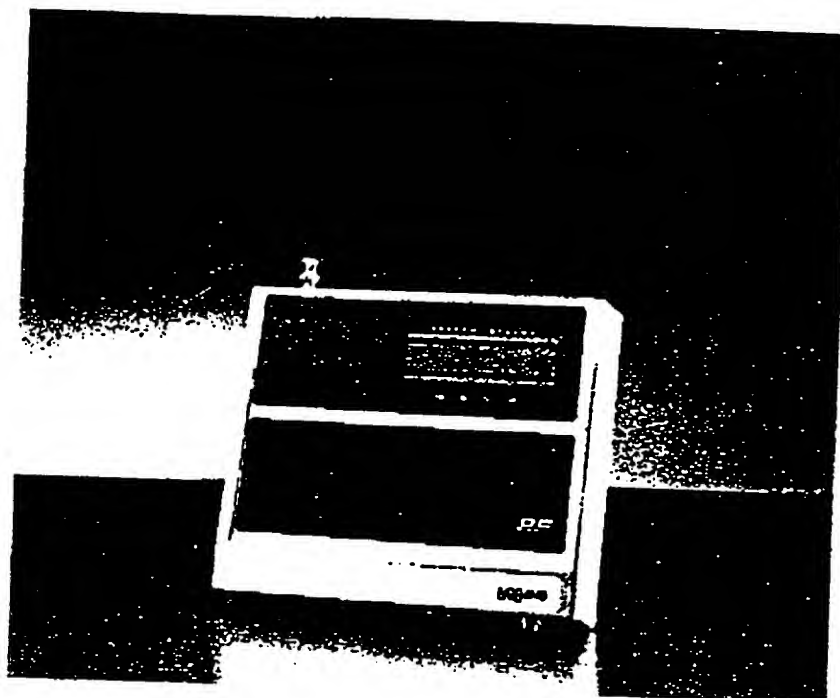
Developed for industrial and warehouse applications, where voice radio systems are often already in use, the RB3000 was designed to reject unwanted signals from other systems and to be less likely to interfere with neighboring radio networks.

The RB3000 utilizes a third-generation, high-performance digital transceiver enhanced for 9600 bit-per-second (BPS) operation. The RB3000 can provide better throughput than a 4800 BPS base radio when combined with our patented Real-Time Control™ radio link communication protocol and baud rate switching. It provides improved throughput by compensating for the range and error rate problems associated with radio communications at 9600 BPS. And we've maintained compatibility with all NORAND RF hand-held terminals.

Consider the importance of reliable, fast communications to your operation and you'll see why the RB3000 is the best solution.

### • The Radio Data Network

The NORAND RB3000 Base Radio Transceiver is a component of a complete radio data network. The network consists of a communications multiplexer (or controller), the RB3000 Base Radio Transceiver and up to 127 terminals. The maximum number of terminals depends on the type of multiplexer or controller selected and whether the host interface is asynchronous or SNA/SDLC.



The portable element of the system is the radio data terminal. Terminals are carried throughout your facility to put the power of your host computer where the work needs to be done. Norand offers a variety of terminals designed for different operating conditions.

The terminals communicate with the host computer via the RB3000 Base Radio Transceiver and communications multiplexer (or controller). The RB3000 utilizes a high-performance digital data radio to ensure reliable communications.

The RB3000 is controlled by the communications multiplexer (or controller) which manages the radio network communications and data transfer between the terminals and the host computer. The communications link between the multiplexer (or controller) and the RB3000 can be via an RS232 or RS422 interface cable.

### FEATURES:

- High-performance third-generation radio designed for data communications
- Patented Real-Time Control™ protocol and baud rate switching for reliable 4800 BPS or 9600 BPS communications
- System compatibility with all NORAND® RF hand-held terminals
- Operational status indicators

# RB3000 Base Radio Transceiver SPECIFICATIONS

## Product Features:

Indicators: Light Emitting Diode (LED) indicators reflect transceiver status (ON [power on], TX [transmitting], RX [receiving], HS [9600 BPS operation])

Radio Link Transmit Speed (Bits-Per-Second): 4800 (with communications multiplexer), 9600 (with network controller), 4800/9600 Baud Rate Switching\* (with network controller)

Base Radio Serial Interface:  
RB3000 - RS232  
RB3001 - RS422

Case: Molded polymer  
wall-mounted case

## Radio Characteristics:

Radio Transceiver: High-performance, third-generation digital data radio enhanced for 9600 BPS operation

Radiated Power: 2 watts nominal

Frequency Range: 450 to 470 MHz

## Physical Dimensions:

Size: 11.5" x 2.5" x 10.2" (LWH)  
(29.5cm x 6.4cm x 26.2cm)

Weight: 3 pounds (1.36kg)

## Environmental Characteristics:

### Temperature:

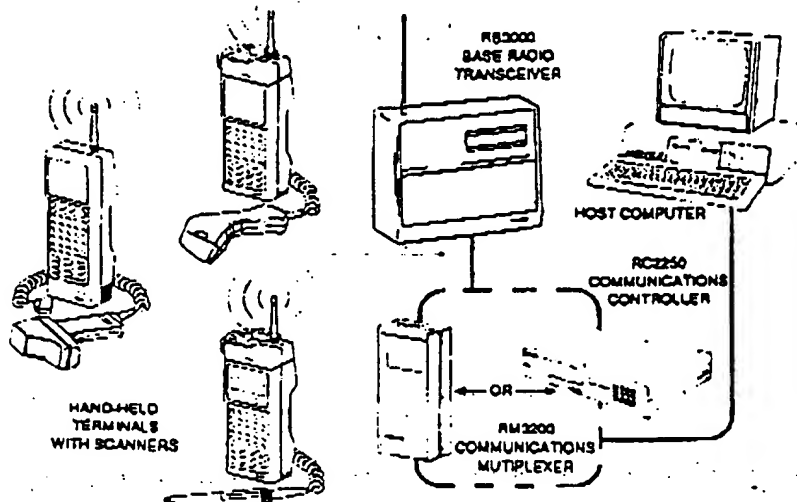
Operating: -4° to 122°F  
(-20° to 50°C)

Storage: -22° to 140°F  
(-30° to 60°C)

Humidity: 10 to 90%  
noncondensing

Altitude: To 10,000 feet  
(3,048 meters) above sea level

## Radio Network Data Flow



**NORAND<sup>®</sup>**  
DATA SYSTEMS

Norand Corporation  
550 Second Street S.E.  
Cedar Rapids, Iowa 52401  
Phone: 319-369-3156  
1-800-553-5971 toll free (ext. 3156)

Norand Data Systems, Ltd.  
951 Denison Street  
Unit #4  
Markham, Ontario  
Canada L3R 3W9  
Phone: 416-477-1818

Norand (U.K.) Ltd.  
5 Bennet Court  
Bennet Road  
Reading, Berkshire RG2 0QX  
England  
Phone: (44) 734-861221

\* Trademarks registered or applied for in countries of the world by Norand Corporation, Cedar Rapids, Iowa, U.S.A.  
© Norand Corporation 1990.  
All rights reserved.  
960-333-012 Printed in U.S.A.

\* Patented in the United States. Patents applied for in other countries.

In a continuing effort to improve our products, Norand Corporation reserves the right to change specifications and features without prior notice.

RB3000 - RS232 - RS422